IETM Program Update
IADS User's Conference

6 April 2004

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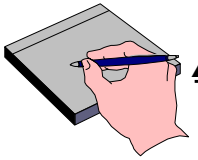
ESSENTIAL IN PEACE, INDISPENSABLE IN WAR

Purpose

- **To provide an information and status brief to attendees of the 2004 IADS User's Conference on**
  - **"On-Going" Initiatives and Program Issues Associated with the Army's IETM Program**
  - **Introduce Users to the S1000D Specification Effort**

Technical Publications Support



AMC Technical Publications Program Management

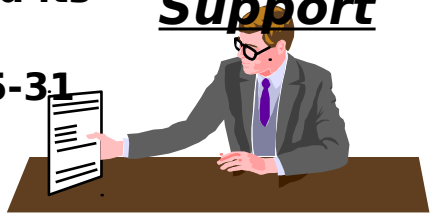
AMC Responsible Agent for IETMs

Official Army ETM/IETM Repository

Develop/Update Policy

- **Army Regulation 25-30 and its Supplement**
- **AMC-Pamphlet (AMC-P) 25-31**
- **AMC-P 25-32**
- **AMC-P 25-35**

User Support



- **Process Waiver Requests**
- **Program Manager Support**
- **Management Visits**
- **Policy Guidance**

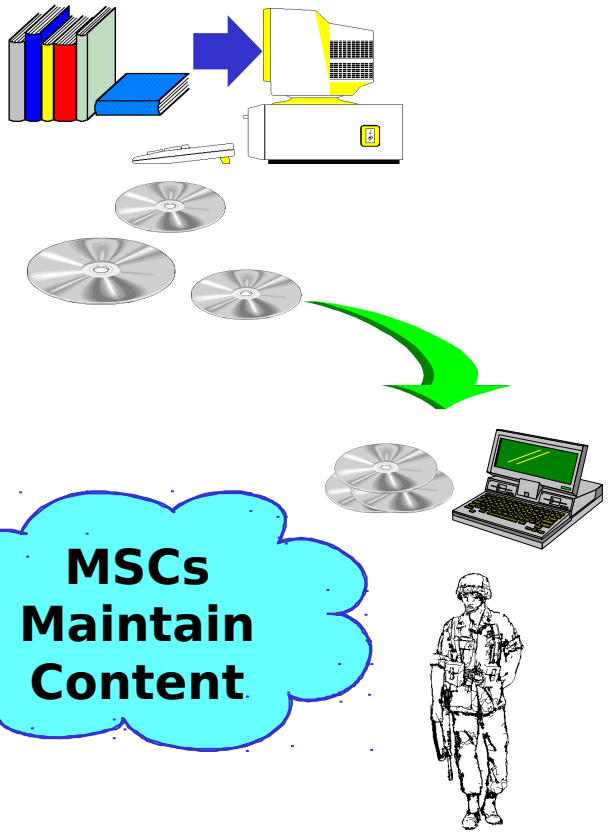
Technical Manual Specifications and Standards (TMSS)

DoD Lead Standardization Activity – TMSS

- **Army Custodian**
- **Preparing Activity for 21 Standards and Specs**
- **Revising Following:**
  - **MIL-STD-40051**
  - **MIL-STD-2361**
  - **MIL-HDBK-1222**

IETM Program Support

WHERE AMC SUPPORTS THE FIELD TODAY



Electronic Technical Manuals (ETMs)

- 12,000 ETMs and 25 IETMs on the WEB
- 123 Weapon System CDs
- Maintain Army WEB Site
  - 56,400 Users with ~6 Million Hits in Mar 04 Alone

ETM/IETM Policy

- AR 25-30
- AMC Suppl 1 to AR 25-30
- AMC-P 25-31 (Verification Plans), AMC-P 25-32 (Contract Packages), AMC-P 25-35 (Contracting for IETMs)
- Technical Manual Specifications and Standards (TMSS)

Tailored Index Listings

- Approx. 1,200 Field Requests for Information per Fiscal Year (FY).
- 1,241 Listings Provided in FY 03
- Over 26,000 Listings Provided to the Field since 1987.

Important Issues Facing IETMs

5-10 Years Ago	***NOW***
Executive Agency	**Responsible Office**
Data Standardization	Data Standardization
Authoring Systems	Authoring Systems
Enforcement	Enforcement
Content Data Mgmt	CDMS
Sustainment	Sustainment

EMPOWERMENT

FUNDING

Slow Movement Forward!

IETM "On-Going" Initiatives

- **IETM Responsible Office**
  - Central Office for the Army's IETM Program
    - LOGSA supporting IETM program at reduced level *without* centralized funding
    - Formerly titled "IETM Executive Agency"
  - Provide MSC/Soldier Support & Direction
    - FCS, Stryker Demo, and TLDD Initiative
    - Developed Standardized IETM Look-N-Feel
  - LOGSA Proposal Staffed and Approved
    - MG Stevenson Tasked LOGSA to Develop
    - No Funding Allocated to Start-up and Support

IETM "On-Going" Initiatives

- **IETM Standards Update Effort**
  - **Standards Update Focuses on 4 Primary Areas**
    - **Automated Parts Ordering**
    - **Diagnostics**
    - **Standardized Troubleshooting**
    - **Common Look-N-Feel**
  - **Weekly Telecon Discussions on Technical Issues**
  - **Testing of IETM Standards Required**
    - **test new diagnostic module**
    - **confirm usability of common Look-N-Feel**
    - **test use of functionality selection matrix**
    - **apply DTD to actual weapon system data**

❖ **Funding to Support Initial Testing Required**

IETM Standards Update

- **MIL-STDs 40051-1, 40051-2, 2361C and Supporting DTD to be delivered 31 March 2004 for Testing**
- **APD providing funds for an additional 30 days to complete MIL-HDBK 2361**
- **Style sheet preparation is on-going. Will use 31 March DTD as baseline**

IETM Standards Update

- MG Stevenson Gave Direction During 22 Jan VTC as Follows:
  - Test Against One System Before Issuing for Widespread Usage
- MH-47E Program has Volunteered to be a Pilot Program for New Standards
  - MOA is Being Developed
- Other MSCs/Programs will Participate in Testing as Time and Funding Allows
- We Believe Content Standards will Require Little if any Changes as a Result of Testing
  - Majority of Changes will be to DTD
- Plan to Release Standards Between 30 Jun and Sep 04 Depending on Test Results

IETM "On-Going" Initiatives

- **PDF/XML Conversion Efforts**
  - **Conversion of PDF ETMs to XML Data Utilizing the Native American Document Conversion Program**
    - **LOGSA responsible for Implementation**
    - **After initial development, IETMs need continuous updating/sustainment**
    - **What systems do we need to start with?**
      - ✓ **System Prioritization**
      - ✓ **Concept of Operations**
  - **Big Sustainment Cost**
    - **Who will Pay the Bill?**
    - **LOGSA/MSCs must POM for Sustainment**

NADCP Background

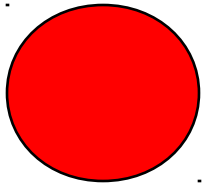
- **Congressional Funding**
  - **$30M for FY03**
  - **Army, Air Force, Navy, Marines**
  - **Managed by USMC**
- **Native American Consortium**
  - **12 Tribal Contractors**
  - **Throughout US Including Alaska and Hawaii**
- **4 Mentor Vendors**
  - **DCL (Text)**
  - **Dimension 4 (Graphics)**
  - **4-Ward Tech (Graphics)**
  - **ESSI (IETM)**

Army Approach to the Conversion

- **PDF Files (Systems not Yet IETMs)**
  - Equipment Publications Source Data
  - Convert to XML Tagged-Data
- **Task Orders**
  - Text Mil-Std 40051/2361B
  - Graphics
    - Vector CGM Graphics for RPSTL Figures and Schematics
    - Raster for Maintenance Procedures and Locator Illustrations
- **Initial Systems**
  - AH-64A (AMCOM)
  - Paladin (Self-Propelled Howitzer) – TACOM
  - ACE (Armored Combat Earthmover - TACOM
  - AN/TPQ-36/37 (Firefinder) - CECOM

IETM "On-Going" Initiatives

- **S1000D International Specification**
  - Joint Service effort with the European Publications Community and Industry - Developing ISO Standard
  - Army identified as Land System Requirements Lead
    - Will participate on U.S. TPSMG and EPWG
    - Army Troubleshooting/Diagnostics refinement in current standards update should help overall S1000D effort
  - Conduct Reqts Analysis for potential DoD adoption/use
    - Funding crucial to start the initial analysis and mapping between 40051/2361 and S1000D specifications
    - Does the Army need? Long Term Approach?
      - If so, Need a Migration Plan/Strategy



❖ **Funding to Support Initial Analysis Required**

Why a Joint Service Spec?

- **May be OSD Directed very soon!**

- **Interoperability/Interchange**
  - **Intra-Service**
  - **Inter-Services**
  - **Between Allies**

- **Probability of Lower Costs, however not Guaranteed**
  - **Proprietary tech data drives up costs; Standards allow for more competition among vendors**
  - **The need for redundant software & hardware is reduced**
  - **Standard integration with other systems and data (e.g.: training)**
  - **Sustainment costs shared between countries and Industry**

Why S1000D ?

- **Greatest momentum toward acceptance as a global standard**
  - **The *de facto* standard for our NATO Allies – accepted and tested**
  - **Already selected by number of DoD programs**
  - **Likely to meet the needs of all Services**
  - **Has US & International industry and International Government support**
- **New tech data capabilities, including Joint-Services required interactivity, will be included in future releases**
- **The large user-base ensures that more vendors develop better tools and products at more competitive prices**
- **It is Architecturally Sound**
  - **Data Module structure enables lower bandwidth use and data reuse**
  - **Linear and non-linear implementations**
  - **Data level interoperability**

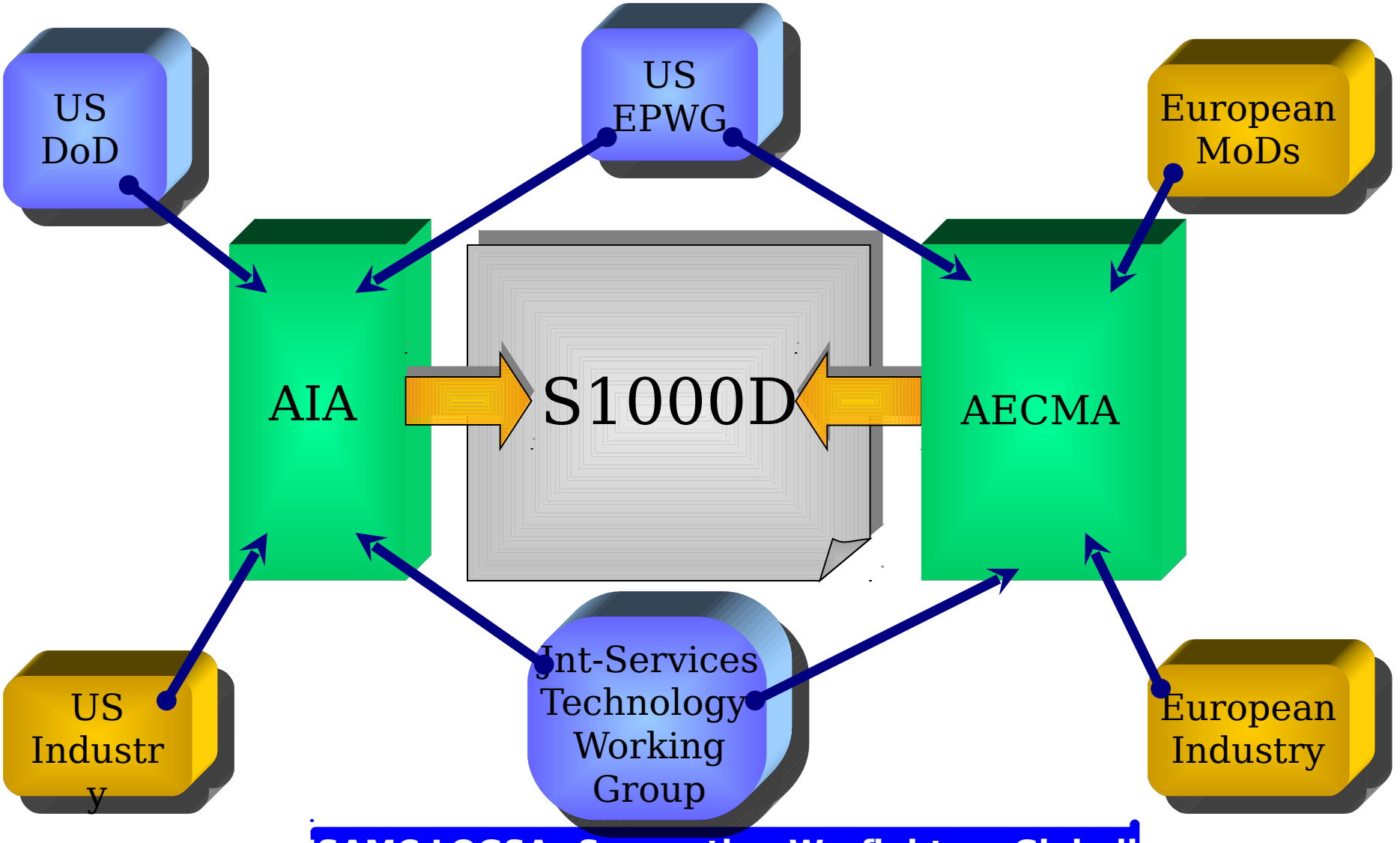
S1000D and Existing U.S. Programs

- **A number of US programs have already selected S1000D**
  - **F-35 (JSF), Global Hawk, F-117**

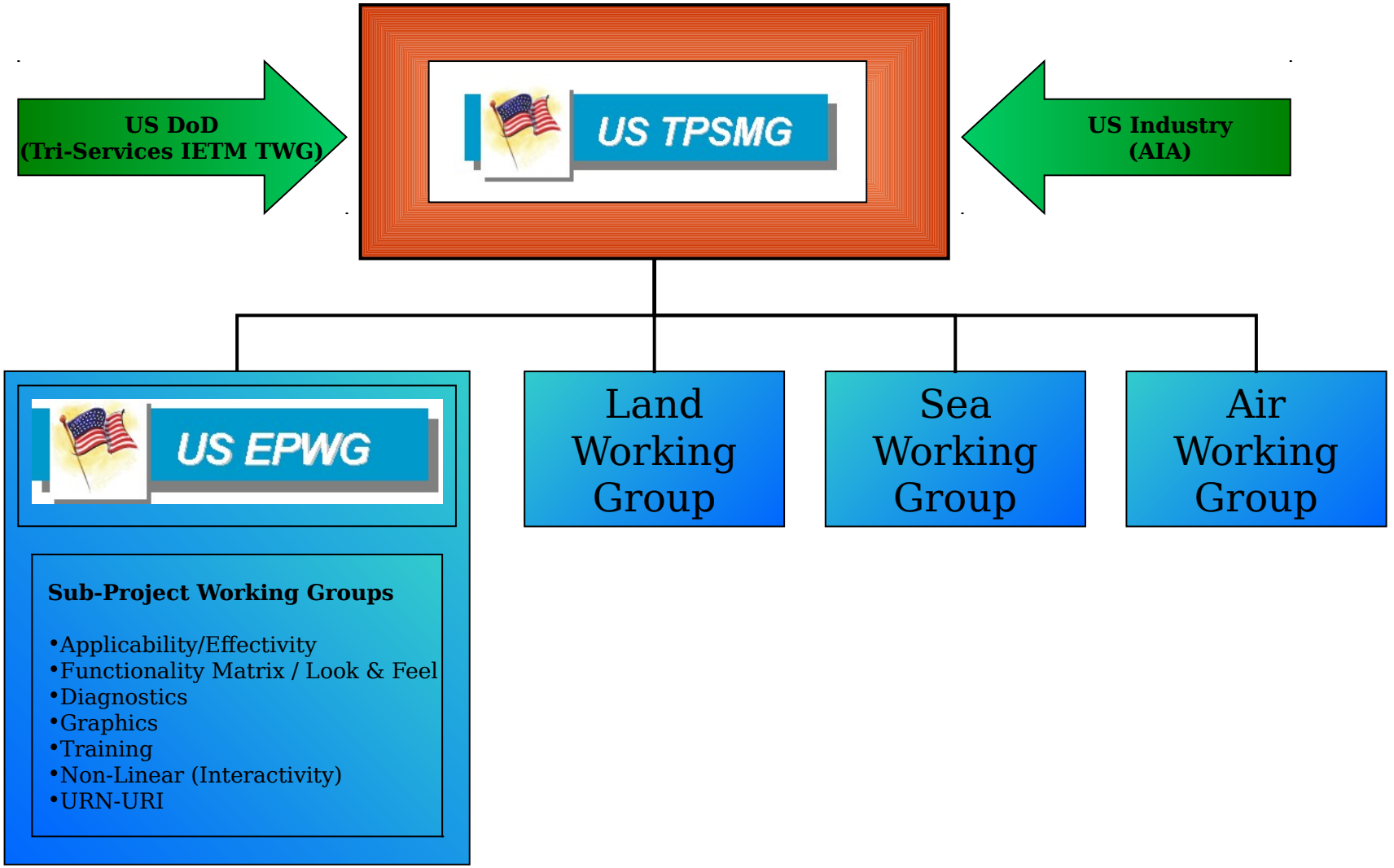
- **These programs are already going down a path of developing their own *version* of the spec (individual interpretations and development of individual Business Rules).**
  - **Unique solutions to specification deficiencies**
  - **Lack of specification understanding & experience**
  - **Lack of Joint-Services guidance**

- **Funding the Joint-Services IETM Working Group to analyze S1000D and develop Business Rules is necessary to get out in front of these programs.**

S1000D Inputs & Influences



S1000D U.S. Organization



Army Efforts To Date

- **Army representatives continue to meet with Tri-Service IETM Technology Working Group and S1000D representatives on current S1000D effort.**
  - **AIA Tri-Service Technical Publications Workshop**
  - **Multiple Working Group Telecons and Meetings**

- **Army representative met with and/or briefed several key DoD/DA/AMC stakeholders to explain the direction and importance of the S1000D effort.**

  MG Mitchell Stevenson, AMC Mr. Ron Lewis, AMC(EI)
  Mr. Mark O'Konski, LTA Mr. Greg Saunders, DLA
  Ms. Sally Kann, AMC

Army Efforts To Date

- **IETM WG/SMEC conducted a limited review of S1000D and has produced comments and questions.**
  - **Army position paper developed to state S1000D migration possible given the identified funding to support analysis by the Services**
  - **SMEC/Land Systems Sub-Group has reviewed the following:**
    - **Illustrated Parts Breakdown**
    - **S1000D Common Look-N-Feel**
    - **Sets & Dialog Sections**

- **Identified S1000D analysis effort into the FY 06-11 POM for future support and funding for effort. It is on the AMC resource radar screen!**
  - **Held an AMC business meeting in August 03 to discuss IETM Issues and S1000D**
  - **Funding crucial to start the initial analysis and mapping between 40051/2361 and S1000D specifications**

Army Efforts To Date

- **Army identified as Land System Requirements Lead**
  - **Will participate on U.S. TPSMG and EPWG**
  - **Army Troubleshooting/Diagnostics refinement in current standards update should help overall S1000D effort**
  - **Provided input to the US TPSMG regarding comments and suggestions and possible deltas between existing IETM standards and S1000D**
    - **Analysis has been somewhat general at times and probably not as complete as if funding was obtained and directed to the land systems group.**
    - **Agencies are providing expertise "out-of-hide"**
    - **Cannot do it any longer**

Army Future Plans

- **Briefed MG Stevenson, AMC G-3, on 22 Jan 04**
  - **S1000D discussion points with Army Leadership**
  - **Funding/Decision Brief to LOGSA with the following direction:**
    …. S1000D funding is not high on AMC's list of priorities. Go to DoD for funding on this effort…….

- **Conduct an analysis and develop a plan to determine a possible migration path from current Army standards to S1000D**
  - **Tri-Service IETMTWG chair has identified possible DoD funding**

- **The Army recognizes the need to look in this direction!**
  - **S1000D can help the Army -- Army standards can help S1000D**
  - **Still a Lot of Work to be Done – DoD Funding Critical!**
  - **Build Requirements for SOWs and contracts**

LOGSA IETM Point-of-Contact

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Backup Chart

Tying It All Together